Index of Claims

| App | lication | /Contro | l No. |
|-----|----------|---------|-------|

09/895,078

Examiner

Eleni A. Shiferaw

Applicant(s)/Patent under Reexamination

TSUCHIYAMA ET AL.

Art Unit

2136

Rejected **Allowed** 

(Through numeral) Cancelled

÷

Restricted

Non-Elected N

Interference

Appeal Α

0 Objected

| Cla      | im       | Date     |          |                |                |          | 1         | Cla     | im      | Date      |        |              |          |              |           |          |          | Cla            | aim          | Date     |          |                 |     |  |            |          |          |          |             |          |          |                |          |           |
|----------|----------|----------|----------|----------------|----------------|----------|-----------|---------|---------|-----------|--------|--------------|----------|--------------|-----------|----------|----------|----------------|--------------|----------|----------|-----------------|-----|--|------------|----------|----------|----------|-------------|----------|----------|----------------|----------|-----------|
| - 516    |          |          |          |                |                |          | 1         | Claim   |         |           | - Daie |              |          |              |           |          |          |                | 1            | <u></u>  |          |                 |     |  |            |          |          |          |             |          |          |                |          |           |
| Final    | Original | 1/16/07  |          |                |                |          |           |         |         |           | a      | Final        | Original |              |           |          |          |                |              |          |          |                 |     | Final  | Original   |          |          |          |             |          |          |                |          |           |
| <u>"</u> |          |          |          |                |                |          |           |         |         |           |        |              |          |              |           |          |          |                |              |          |          |                 |     | ш.   |            |          |          |          |             |          |          |                |          |           |
|          | 1.       | 2        |          | L              | <u> </u>       | 丄        | $\perp$   | ┸       | ┸       |           | ]      |              | 51       | Ш            |           |          |          |                |              |          |          |                 |     |  | 101        |          | _        |          | _           | _        | _        |                |          | _         |
|          | 2        | Щ        | 1        | L              | L              | <u> </u> | ┸         | ↓       | ┸       |           | ]      |              | 52       |              |           |          |          |                |              |          | _        |                 |     |  | 102        | _        | _        |          |             |          | _        |                |          |           |
|          | _3       | Ш        | 1        | <u> </u>       | _              |          | L         | $\perp$ | ᆚ       |           |        |              | 53       | Ш            |           | $\Box$   |          |                | $\Box$       |          |          |                 | ļ   |  | 103        | _        | $\Box$   |          |             |          | _        |                |          |           |
|          | 4        | Ш        | L        |                | Ľ              |          | ┸         | $\perp$ |         | _ _       | ]      |              | 54       |              |           |          | _        | _              |              |          |          |                 | - 1 |  | 104        | _        |          |          |             |          |          |                | _        |           |
|          | 5        |          | <u> </u> |                |                |          |           | $\perp$ |         |           | ]      |              | 55       |              |           |          | $\Box$   | _              |              |          |          |                 |     |  | 105        |          |          |          |             |          |          |                | _        |           |
|          | 6        | Щ        | [_       | <u> </u>       | L              | $\perp$  | N_        | ┷       | ┵       | 1         | 1      |              | 56       |              |           |          | _        | $\Box$         | _            |          | _        | _               |     |  | 106        | _        |          |          |             | $\dashv$ | $\dashv$ |                | _        | _         |
| <u> </u> | 7        | Ц        | 1        | _              | ١.             | <u> </u> | 1         | _       | ╀       | _         | 1      |              | 57       | Ш            | _         |          | $\dashv$ |                | _            | _        | _        | _               |     |  | 107        |          | _        |          | _           | _        |          | _              | _        | _         |
| <u> </u> | 8        | Ш        | Ц        | <u> </u>       | LØ.            | e        | <u>/\</u> | ┸       | 4.      | _         | 1      |              | 58       | Ш            |           |          |          |                |              | _        | 4        | _               |     |  | 108        |          |          |          | _           | _        |          | _              | _        | _         |
|          | 9        | Ш        |          | 1.             | <u> </u>       | 4        | 1         | $\bot$  | 4-      | 4         | ٩      | 1            | 59       |              |           |          |          |                |              |          | _        | $\Box$          |     |  | 109        |          |          |          |             |          |          | _              | _        | _         |
|          | 10       | 1        |          | <u>~</u> `     | <b> </b>       | ╁        | ╀         | ╀       | _       | _         | -      |              | 60       |              |           |          |          |                |              | _        | _        | Н               |     |  | 110        | $\dashv$ | $\dashv$ |          | _           | $\dashv$ | $\dashv$ | _              | $\dashv$ | _         |
| <u></u>  | 11       | Щ        | 1        | <del> </del>   |                | +        | +         | +       | +       | +         | 1      |              | 61       | Н            |           | $\Box$   |          |                | _            | _        |          |                 |     |  | 111        | $\dashv$ | $\dashv$ |          |             | $\dashv$ | -        | $\dashv$       | $\dashv$ | $\dashv$  |
| <u></u>  | 12       | Н        | #        | -              | ├-             | ╆-       | ╁         | +       | +       | +         | 1      |              | 62       | $\vdash$     |           |          |          |                |              | $\dashv$ | $\dashv$ | $\dashv$        |     |  | 112        | $\dashv$ | -        |          |             | -1       |          | $\dashv$       |          | $\dashv$  |
| <u> </u> | 13       | ╁╅       | -        | $\vdash$       | +              | +        | +         | +       | +       | +         | 1      |              | 63       | $\vdash$     | $\vdash$  | $\dashv$ | -        | _              |              | -        |          | $\dashv$        |     |  | 113<br>114 | _        |          |          |             | $\dashv$ | $\vdash$ |                | $\dashv$ | $\dashv$  |
| <u> </u> | 14<br>15 | ╁        | ╂        | <del> </del> — | <del> </del> — | +-       | +         | +       | +       | +         | ٠ إ    |              | 64<br>65 | Н            |           | $\dashv$ | -        | -              | $\dashv$     |          | -        |                 |     |  | 115        | $\dashv$ | -        |          |             |          |          |                | -        | $\dashv$  |
| <u> </u> | 16       | ⊢╂       | ╟        | ├              | ┼              | +        | ╁         | ┿       | +       | +         | 1      | -            | 66       | H            |           |          |          |                | $\dashv$     | $\dashv$ | -        | $\dashv$        |     |  | 116        |          | $\dashv$ | -        | $\vdash$    | -        |          |                | $\dashv$ | $\dashv$  |
|          | 17       | +        | #        | $\vdash$       | $\vdash$       | ╁        | +         | +       | +       | +         | 1      |              | 67       |              |           |          |          | -              | $\dashv$     | -        | -        |                 |     | $\vdash$   | 117        | _        | $\dashv$ |          | $\vdash$    | -        |          | $\dashv$       | $\dashv$ | $\dashv$  |
|          | 18       | Н        | Н        | ⊢              | ╀              | ╀        | +         | +       | +       | +         | -      | <u> </u>     | 68       | -            |           |          | -        | $\dashv$       | -            | ┥        | $\dashv$ |                 |     |  | 118        | -        | $\dashv$ |          |             | -        | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$  |
| <u> </u> | 19       | H        | Н        | ⊢              | ╀              | +        | +         | +       | +       | +         | 1      |              | 69       | -            |           | -        |          | $\dashv$       | $\dashv$     |          | -        |                 |     |  | 119        | -        |          |          | Н           | -        |          | $\dashv$       | $\dashv$ | $\dashv$  |
| <u> </u> | 20       | ╂╼╂      | H        | ╂              | ╁╌             | +        | ╁         | +       | +       | +         | ١.     | <b>├</b>     | 70       | Н            |           |          | $\dashv$ | $\vdash$       | $\dashv$     | $\dashv$ | -        |                 |     |  | 120        |          | -        |          |             | _        | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$  |
| <u> </u> | 21       | H        | -1       | $\vdash$       | ╁              | +        | +         | +       | +       | +         | 1      |              | 71       | Н            |           | $\dashv$ | $\dashv$ | $\dashv$       | _            | $\dashv$ | -        |                 |     |  | 121        | $\dashv$ | -        |          |             |          | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$  |
| $\vdash$ | 22       | ┤┤       | 1        | $\vdash$       | +              | ╁        | +         | +       | +       | +         | 1      |              | 72       | $\vdash$     |           |          |          | $\vdash$       | $\dashv$     | $\dashv$ |          |                 |     | <u> </u>   | 122        |          |          |          |             |          | H        | $\dashv$       | -        | $\exists$ |
|          | 23       | H        | 1        | $\vdash$       | +              | ╁        | ╁         | +       | ╁       | +-        | 1      | -            | 73       | $\vdash$     |           |          |          |                | $\dashv$     | $\dashv$ | ┪        |                 |     |  | 123        |          |          |          |             | $\neg$   |          | _              | $\neg$   | $\dashv$  |
| -        | 24       | H        | /        | -              | ┼              | +        | ╁         | +       | +       | +         | 1      |              | 74       | Н            |           |          |          |                | $\neg$       | $\dashv$ | $\dashv$ |                 |     |  | 124        |          | $\neg$   |          | _           |          | т        | $\dashv$       |          | $\exists$ |
|          | 25       | Z        | _        | ╁              | +-             | +-       | 十         | $\top$  | +       | +         | 1      |              | 75       | Н            |           |          |          |                | 一            | 一        | 一        |                 |     |  | 125        |          | _        |          | _           |          |          | $\dashv$       |          | ヿ         |
| _        | 26       | 1        | $\vdash$ | $\vdash$       | T              | T        | T         | $\top$  | 十       | $\dagger$ | ┪゜     | <b></b> -    | 76       |              |           |          |          |                | 一            | 一        |          |                 |     |  | 126        |          |          |          |             |          |          | $\neg$         | _        | $\neg$    |
|          | 27       | 1        | /        | T              | T              | t        | Ť         | 1       | ╅       | ╁         | 1      |              | 77       | П            |           |          |          |                | T            | ヿ        |          |                 |     |  | 127        |          |          |          |             |          |          |                |          | П         |
|          | 28       | 1        | Г,       | ┖              |                |          |           | 1       | 1       | 1         | 1      |              | 78       |              |           |          |          |                |              | 一        |          |                 |     |  | 128        |          |          |          |             |          |          | $\neg$         |          | П         |
|          | 29       | V        | Γ        | Γ              |                |          |           | Т       | T       | 1         | 1      |              | 79       |              |           |          |          |                |              |          |          |                 |     |  | 129        |          |          |          |             |          |          |                |          |           |
|          | 30       | 1        |          | T              | Π              |          |           | T       |         | T         |        |              | 80       |              |           |          |          |                |              |          |          |                 |     |  | 130        |          |          |          |             |          |          |                |          |           |
|          | 31       | 1        |          |                |                |          |           |         |         |           | ] <    |              | 81       |              |           |          |          |                |              |          |          |                 |     |  | 131        |          |          |          |             |          |          |                |          |           |
|          | 32       | V        |          | L              |                |          |           |         |         |           |        |              | 82       |              |           |          |          |                |              |          |          |                 |     |  | 132        |          |          |          |             |          |          |                |          |           |
|          | 33       | V        |          |                |                |          | L         |         |         |           | 1      |              | 83       | $\Box$       |           |          |          |                |              |          |          |                 |     |  | 133        |          |          |          |             |          |          |                |          | Ш         |
| <u></u>  | 34       | V        | L        | $\perp$        | L              | _        | 1         |         | 1       | _         | 1      |              | 84       | <u> </u>     |           |          | Ш        |                |              |          |          | Ш               |     |  | 134        | Щ        |          |          | Ш           |          | Ш        |                |          | Ш         |
|          | 35       | L        | L        |                | $\perp$        | _        | $\perp$   | $\perp$ | $\perp$ | $\perp$   | 1      |              | 85       | <u> </u>     |           | Ш        |          |                |              |          |          |                 |     |  | 135        |          | L        |          | Ь.,         |          |          |                |          | Щ         |
|          | 36       | _        | L        |                | ╙              | 1        | ╀         | $\perp$ | $\bot$  | $\bot$    | ٠ إ    |              | 86       | <u> </u>     |           |          | Щ        | Щ              |              |          |          |                 |     |  | 136        |          |          |          |             |          | Ш        |                |          | Щ         |
|          | 37       | <u> </u> | _        | _              | <u> </u>       | 1        | 1         | $\bot$  | 4       | _         | 1      |              | 87       | igspace      |           | Щ        | Ш        | <u></u>        |              |          |          |                 |     | L  | 137        |          |          |          |             |          | Ш        |                |          | Щ         |
|          | 38       | <u> </u> | _        | <u> </u>       | 4_             | 1_       | 1         | _       | 4       | _         | 4      |              | 88       |              | Ш         | Ш        | Ш        | Ш              |              | _        | _        |                 |     |  | 138        |          |          |          |             |          | <u> </u> |                |          | $\vdash$  |
| ļ        | 39       | <b> </b> | <u> </u> | <del> </del> _ | $\vdash$       | +-       | 1         | +       | 4       | +         | 4      |              | 89       | $\vdash$     | $\square$ | Ш        | Ш        | Щ              | $\square$    | _        | _        |                 |     |  | 139        |          |          | <u> </u> | $\vdash$    | <u> </u> | Щ        | _              | _        | Щ         |
|          | 40       | -        | _        | ⊢              | $\vdash$       | +        | +         | +       | +       | +         | -      |              | 90       | _            | $\vdash$  | $\vdash$ |          |                | _            |          | _        | $\vdash \vdash$ |     |  | 140        | -        | <u> </u> |          | _           |          | Н        |                |          | $\dashv$  |
|          | 41       | <u> </u> | <b>.</b> | ┡              | $\vdash$       | $\perp$  | +         | +       | +       | +         | ۔ ⊦    |              | 91       | $\vdash$     | Ш         | Н        | Щ        | Щ              | $\vdash$     |          |          | $\vdash\vdash$  |     |  | 141        | -        | <u> </u> |          | <u> </u>    | $\Box$   | $\vdash$ | -              |          | -         |
| <u> </u> | 42       |          | <u> </u> | ┼              | +-             | ╁        | +-        | +-      |         | +         | ┤ `    |              | 92       | ⊢            | $\vdash$  | $\vdash$ | Н        | $\vdash$       |              | -        | -        | Н               |     | <u> </u>   | 142<br>143 |          |          | -        | -           |          | Н        |                |          | $\vdash$  |
| <u> </u> | 43       | ⊢        | $\vdash$ | +-             | +-             | +        | +         | +       | +       | +         | -      | $\vdash$     | 93<br>94 | $\vdash$     | Н         | Н        | Н        | Н              | $\vdash$     | $\dashv$ |          | $\vdash$        |     | <u> </u>   | 144        | -        |          | _        | H           | $\vdash$ | Н        | $\vdash$       |          | $\vdash$  |
| <u> </u> | 45       | $\vdash$ | -        | $\vdash$       | $\vdash$       | +        | +         | +       | +       | +         | -      | <u> </u>     | 95       | ├-           |           | $\vdash$ | Н        | Н              | ⊢⊢           | $\dashv$ | $\vdash$ | $\vdash\vdash$  |     | <b> </b> -                                       | 144        | H        |          |          | Ь.          |          | Н        | $\vdash\dashv$ | -        | -         |
| -        | 46       | $\vdash$ | $\vdash$ | +              | $\vdash$       | +        | +         | +       | +       | +         | 1      | $\vdash$     | 96       | ⊢            | $\vdash$  | Н        | $\vdash$ | Н              | $\dashv$     | $\dashv$ | $\vdash$ |                 |     | <del> </del>                                     | 146        | $\dashv$ | $\vdash$ | <u> </u> | $\vdash$    |          | Н        | $\dashv$       |          | $\vdash$  |
| <u> </u> | 47       | $\vdash$ | $\vdash$ | $\vdash$       | $\vdash$       | +        | +         | +       | +       | +         | 1      | <del> </del> | 97       | ┢            | $\vdash$  | $\vdash$ | $\vdash$ | $\vdash\vdash$ | $\vdash$     |          | $\vdash$ | $\vdash$        |     | <del>                                     </del> | 147        | Н        | _        |          | $\vdash$    |          | Н        | Н              | _        | $\vdash$  |
|          | 48       |          | ╁        | ╁              | ╁              | +        | +         | +       | +       | +         | ┤ °    | <u> </u>     | 98       | <del> </del> | -         | $\vdash$ | $\vdash$ | $\vdash$       |              | $\dashv$ |          | $\vdash \vdash$ |     | -  | 148        | $\dashv$ | _        | -        |             | _        | $\vdash$ |                | _        | $\vdash$  |
| <b>—</b> | 49       | $\vdash$ | $\vdash$ | $\vdash$       | ╁              | +        | ╁         | +       | ╫       | +         | 1      |              | 99       | $\vdash$     | $\vdash$  | Н        | $\vdash$ | $\vdash$       | $\vdash$     | $\dashv$ | $\vdash$ | $\vdash \vdash$ |     |  | 149        | $\dashv$ | $\vdash$ | <u> </u> | <del></del> | $\vdash$ | Н        | $\dashv$       | _        | $\vdash$  |
| <u> </u> | 50       | $\vdash$ | $\vdash$ | +              | +-             | +        | +         | +       | +       | +         | 1      | $\vdash$     | 100      | $\vdash$     | Н         | Н        | Н        | Н              | $\vdash$     | $\dashv$ | $\vdash$ | $\vdash \vdash$ |     |  | 150        | Н        |          | $\vdash$ |             | $\vdash$ | Н        | $\vdash$       |          | -         |
|          |          | ٠.       | 1        |                | _              |          | 1         | _1_     | _1_     |           | J      |              |          |              |           |          |          |                | $ldsymbol{}$ |          |          |                 | 1   |  |            |          |          |          |             |          | لــا     |                |          | لــــــا  |